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## United States Department of Agriculture,

WASHINGTON, D. C., *September 30, 1918.*

### MONTHLY LIST OF PUBLICATIONS.

[SEPTEMBER, 1918.]

READ CAREFULLY BEFORE ORDERING.

Send no remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

#### FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

NOTE.—The department's supply of the current numbers of Farmers' Bulletin is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy.

**Controlling the Garden Weeborn in Alfalfa Fields.** By E. O. G. Kelly, Entomological Assistant, and T. S. Wilson, Scientific Assistant, Cereal and Forage Insect Investigations. Pp. 7, figs. 3. Contribution from the Bureau of Entomology. (Farmers' Bulletin 944.)  
Of interest to alfalfa growers generally.

**Important Poultry Diseases.** By D. E. Salmon. Revised, with additions by Bernard A. Gallagher and W. D. Foster. Pp. 48, figs. 11. Contribution from the Bureau of Animal Industry. (Farmers' Bulletin 957.)

A revision of Farmers' Bulletin 530 and suitable for general distribution.

**Systems of Hog Farming in the Southeastern States.** By E. S. Haskell, Assistant Agriculturist. Pp. 40, figs. 12. Contribution from the Office of Farm Management. (Farmers' Bulletin 985.)

Tells how the more successful hog growers of this region fit hog raising into their farming systems, and outlines an elastic grazing plan, designed to provide for ten sows and their pigs without entailing much expense for costly concentrates.

**The Preparation of Bees for Outdoor Wintering.** By E. F. Phillips, Apiculturist, and George S. Demuth, Apicultural Assistant. Pp. 24, figs. 6. Contribution from the Bureau of Entomology. (Farmers' Bulletin 1012.)

Suitable for general distribution.

#### DEPARTMENTAL BULLETINS—TECHNICAL.

The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information, as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

**Highway Cost Keeping.** By James J. Tobin and A. R. Losh, U. S. Engineer Economists. Pp. 52, figs. 9. Contribution from the Office of Public Roads. Sept. 12, 1918. (Department Bulletin 660.) Price, 10 cents.

Of interest to public road officials and highway engineers.

**Geographical Phases of Farm Prices: Corn.** By L. B. Zapolson, formerly of the Division of Crop Records. Pp. 53, figs. 7, maps 3. Contribution from the Bureau of Crop Estimates. Sept. 26, 1918. (Department Bulletin 696.) Price, 10 cents.

Shows the difference in values and of the costs of production of corn in the various producing sections.

**Citrus-Fruit Improvement: A Study of Bud Variation in the Marsh Grapefruit.** By A. D. Shamel, Physiologist in Charge, L. B. Scott, Pomologist, and C. S. Pomeroy, Assistant Pomologist, Office of Horticultural and Pomological Investigations. Pp. 112, pls. 11, figs. 14. Contribution from the Bureau of Plant Industry. Sept. 27, 1918. (Department Bulletin 697.) Price, 20 cents.

Of interest to commercial growers of grapefruit.

- The Chemical Analysis of Wheat-Flour Substitutes and of the Breads Made Therefrom.** By J. A. Le Clerc, Chemist in Charge, and H. L. Wessling, Assistant Chemist, Plant Chemical Laboratory. Pp. 12, pls. 7. Contribution from the Bureau of Chemistry. Sept. 20, 1918. (Department Bulletin 701.) Price, 5 cents.  
Gives the results of the analysis of more than 30 part substitutes for wheat flour and the bread made from them.
- Efficiency of Commercial Egg Candler.** By M. K. Jenkins, Assistant Bacteriologist, and C. A. Bengston, Investigator in Egg Handling. Pp. 22, figs. 2. Contribution from the Bureau of Chemistry. Sept. 12, 1918. (Department Bulletin 702.) Price, 5 cents.  
Of interest to wholesale and retail dealers in eggs.
- Shuck Protection for Ear Corn.** By C. H. Kyle, Assistant Physiologist, Office of Corn Investigations. Pp. 16, figs. 3. Contribution from the Bureau of Plant Industry. (Professional Paper.) Sept. 19, 1918. (Department Bulletin 708.) Price, 5 cents.  
Result of investigations regarding the merits of shucks as a means of preventing ear damage.
- Stagger Grass (*Chrosperma Mucrotoxicum*) as a Poisonous Plant.** By C. Dwight Marsh and A. B. Clawson, Physiologists, and Hladleigh Marsh, Veterinary Inspector. Pp. 14, figs. 8. Contribution from the Bureau of Animal Industry. (Professional Paper.) Sept. 13, 1918. (Department Bulletin 710.) Price, 5 cents.  
Gives description and characteristics of the plant, and suggests remedial measures for counteracting its effects on animals.
- A Five-Year Farm Management Survey in Palmer Township, Washington County, Ohio, 1912-1916.** By H. W. Hawthorne, Scientific Assistant. Pp. 53, pls. 2, figs. 13. Contribution from the Office of Farm Management. (Professional Paper.) Sept. 26, 1918. (Department Bulletin 716.) Price, 10 cents.  
A study of a farm-management survey of 73 southeastern Ohio hill farms, and contains valuable suggestions to farmers located on the numerous similar areas of Pa., Ohio, Ind., Ill., W. Va., and Ky.
- Digestibility of Protein Supplied by Soy-Bean and Peanut Press-Cake Flours.** By Arthur D. Holmes, Specialist in Charge of Digestion Experiments, Office of Home Economics. Pp. 28. Contribution from the States Relations Service. (Professional Paper.) Sept. 25, 1918. (Department Bulletin 717.) Price, 5 cents.  
Records studies of the digestibility of protein supplied by soy-bean and peanut press-cake flours. It is primarily of interest to students and investigators of food problems.
- Women's Rural Organizations and Their Activities.** By Anne M. Evans, Investigator in Women's Rural Organizations. Pp. 15, figs. 3. Contribution from the Bureau of Markets. Aug. 29, 1918. (Department Bulletin 719.) Price, 5 cents.  
For general distribution.
- A Method for Preparing a Commercial Grade of Calcium Arsenate.** By J. K. Haywood, Chief, Miscellaneous Division, Insecticide and Fungicide Board, and C. M. Smith, Assistant Chemist. Pp. 10. Contribution from the Bureau of Chemistry and the Insecticide and Fungicide Board. (Professional Paper.) Oct. 5, 1918. (Department Bulletin 750.) Price, 5 cents.  
Of interest to manufacturers of insecticides and fungicides.

#### MISCELLANEOUS.

- The Work of the Huntley Reclamation Project Experiment Farm in 1917.** By Dan Hansen, Farm Superintendent. Pp. 29, fig. 1. September, 1918. (W. I. A. Cir. 23, Bureau of Plant Industry.)
- The Work of the San Antonio Experiment Farm in 1917.** By C. R. Lettner, Farm Superintendent. Pp. 28, figs. 4. September, 1918. (W. I. A. Cir. 21, Bureau of Plant Industry.)
- The Rice Rats of North America.** By Edward A. Goldman, Assistant Biologist, Biological Survey. Pp. 100, pls. 6, figs. 11. Sept. 23, 1918. (North American Fauna No. 43.) Price, 20 cents.
- Report of the Porto Rico Agricultural Experiment Station, 1917.** Pp. 40, pls. 4. Sept. 20, 1918. Price, 10 cents.

#### SERIALS.

- Journal of Agricultural Research.** (For sale only.) Vol. 14, No. 10, September 2, 1918. Contents: Acidity of Silage Made from Forage Crops. (pp. 140-1.) By Ray E. Neidig.—Pinon Blister-Rust. (pp. 142-152.) By George G. Hedgcock, Ellsworth Bethel, and N. Rex Hunt.—Comparative Toxicity of Cottonseed Products. (pp. 153-163.) By W. A. Withers and F. E. Carruth. Pp. 395-452, pls. 4, figs. 6. Price, 15 cents.
- Same, Vol. 14, No. 11. Sept. 9, 1918. Contents: Variations in the Moisture Content of the Surface Foot of a Loess Soil as Related to the Hygroscopic Coefficient. (pp. 164-174.) By Frederick J. Atway and Guy R. McDole.—Subsoiling, Deep Tilling, and Soil Dynamiting in the Great Plains. (pp. 175-183.) By E. C. Chilcott and John S. Cole.—Overwintering of the Citrus-Canker Organism in the Bark Tissue of Hardy Citrus Hybrids. (pp. 184-194.) By George L. Peltier and David C. Neal. Pp. 453-524, pl. 1, figs. 8. Price, 15 cents.**
- Same, Vol. 11, No. 14. Dec. 31, 1917 [September, 1918]. Contents and Index to Volume 11. Pp. xvii, 717-727. Price, 5 cents.**

**NOTE.**—Beginning with volume 5 the Journal of Agricultural Research has been issued weekly and is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. *It will not be sent free to individuals.* The Superintendent of Documents will receive subscriptions for this publication, the price being \$3 per year, 52 numbers.

**Experiment Station Record.** Vol. 39, No. 1, July, 1918. E. W. Allen, Ph. D., Editor. Pp. 1-100. Price, 15 cents.

Same, Vol. 39, No. 2, August, 1918. Pp. 101-200. Price, 15 cents.

**NOTE.**—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution, and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at \$1 a volume.

**The Monthly Crop Report.** Vol. 4, No. 9, September, 1918. Pp. 101-116. (Bureau of Crop Estimates.)

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock. For free distribution.

#### SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

These contain *only* information, instructions, and notices governing the enforcement of food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 135. Pp. 53-59. Sept. 23, 1918. Price, 5 cents.

Bureau of Animal Industry. No. 136. Pp. 61-67. Sept. 30, 1918. Price, 5 cents.

Bureau of Chemistry. Index to Nos. 1 to 22 1918. Pp. 34. Oct. 7, 1918. Price, 5 cents.

Federal Horticultural Board. No. 54. Pp. 71-78. Sept. 18, 1918. Price, 5 cents.

#### PUBLICATIONS OF THE WEATHER BUREAU.

Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

**Daily River Stages at River Gage Stations on the Principal Rivers of the United States.** Vol. 15 for the Year 1917. By Alfred J. Henry, Meteorologist. Pp. 286. Price, 50 cents.

**National Weather and Crop Bulletin.** Nos. 25, 26, 27, 28, September, 1918, reporting temperature, rainfall, and crop conditions throughout the United States. Issued weekly, on Wednesday, April to October; monthly remainder of year. Price, 25 cents a year.

EDWY B. REID,  
Chief, Division of Publications.



## HOW WOOD COMPARES WITH COAL IN HEATING VALUE.

In heating value one standard cord of well-seasoned hickory, oak, beech, birch, hard maple, ash, elm, locust, or cherry wood is approximately equal to 1 ton (2,000 pounds) of anthracite coal, according to estimates by the Forest Service, United States Department of Agriculture. However, a cord and a half of soft maple and 2 cords of cedar, poplar, or basswood are required to give the same amount of heat.

One cord of mixed wood, well seasoned, equals in heating value at least 1 ton of average-grade bituminous coal.